1. Problem Domain
   - Insert a value into middle of array
   - Shift other elements to fill gaps

2. Visual

[2,4,14,22], 8

[2,4,null,14,22] 8

[2,4,8,14,22] = Output

reverse it

[2,4,8,14,22]

[2,4,-,14,22] RM middle

Output = [2,4,14,22] // shift to fill null

3. insertArray:
   - find mid index
   - Create newArr +1
   - Copy 1st ½
   - Insert value
   - Copy 2nd ½

removeArray
   - find mid index
   - Creat new Arr -1
   - Copy 1st half
   - Copy 2nd

4. Big O

insert array & remove array
iterate through the len of the Arr once n = len Arr

Time: O(n)

The Arr is = to n+1 / n-1

Space: O(n)

5. fun insertShiftArray (arr, value):

mid Index = (len of arr + 1) / 2 // find mid point

newArr = new arr of len (len of arr + 1)

Copy 1st half of arr to newArr

newArr [mid Index] = value

Copy 2nd half to where it's after midIndex

return newArr

Tests: in: [1, 2, 3, 4], 5
out: [1, 2, 3, 4, 5]

fun removeShiftArray (arr):

midIndex = len of arr / 2

newArr = new array of len(len of arr - 1)

Copy 1st half of arr to newArr

Copy 2nd half of arr to newArr + 1

return newArr

in [1, 2, 3, 4, 5]
out [1, 2, 4, 5]